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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/615,581	07/08/2003	Otman A. Basir	60,449-072	8290	
26096	7590 02/15/2005		EXAMINER		
CARLSON, GASKEY & OLDS, P.C.			DEB, ANJAN K		
SUITE 350	400 WEST MAPLE ROAD SUITE 350			PAPER NUMBER	
BIRMINGH	AM, MI 48009	2858			
			DATE MAILED: 02/15/2005	DATE MAILED: 02/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Commons		10/615,581	BASIR ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Anjan K. Deb	2858				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failu Any	MAILING DATE OF THIS COMMUNICATION. MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13. SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) of rill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDOI	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 08 Ju	ıly 2003.					
2a)☐	This action is FINAL. 2b)⊠ This action is non-final.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-20</u> is/are rejected.						
•							
•	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	tion Papers						
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Gee the attached detailed Office action for a list of the defined copies not received.							
Attachma	nt(c)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 07/08/2003. 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1,2,11-13,16 are rejected under 35 U.S.C. 102(b) as being anticipated by Stanley US (6,703,845 B2).

Re claim 1,11,16 Stanley discloses an occupant classification system (occupant size and position)(column 2 lines 25-34) and method comprising at least one load sensor (weight sensor) for determining an amount of load on a vehicle seat, and at least one occupant presence detection (OPD) sensor for determining whether the load is animate (human body) (column 4 lines 60-65). Re claim 16, Stanley discloses determining position of the head (out of position)(proximity of object)(column 5 lines 2-5, column 6, lines 12-22, column 7 lines 48-50).

Re claims 2,12,13 Stanley discloses OPD sensor measures capacitance of the load (column 4 lines 60-65).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2858

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 3-8,14-15, are rejected under 35 U.S.C. 103(a) as being unpatentable over Stanley US (6,703,845 B2) in view of Owechko (US 6,801,662 B1).

Re claims 3-8,14-15 Stanley disclosed all of the claimed limitations as set forth above except head-tracking system (HTS) for determining a position of a head of an occupant of the vehicle seat.

Owechko disclosed head-tracking system (HTS) for determining a position of a head of an occupant of the vehicle seat for detecting occupant out of position (OOP) situation.

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Stanley by adding head-tracking system disclosed by Owechko for determining a position of a head of an occupant of the vehicle seat for detecting occupant out of position (OOP) situation.

Re claim 5, Stanley discloses occupant classification system wherein the system determines that a child seat is present on the vehicle seat based upon the at least one load sensor determining the amount of the load on the vehicle seat exceeds an empty seat threshold (column 5 lines 6-16) and based upon the OPD sensor indicating that no occupant is present (column 4 lines 24-35).

Re claim 6, Stanley discloses an array of capacitive sensors (spaced electrodes 64)(Fig. 4).

Re claim 7, Stanley discloses the position of the head to a position of the vehicle seat to determine an inclination (position) of the occupant (out of position) (column 5 lines 2-5).

Re claims 8,15 Stanley did not expressly disclose that the weight of the occupant is determined based upon the inclination of the occupant but would have been obvious to do so since Stanley disclosed that both weight and position of occupant are used for controlling deployment of airbag.

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Stanley and Owechko by adding weight determination based upon the inclination of the occupant for accurately determining occupant position.

5. Claims 9,10,18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stanley US (6,703,845 B2) and Owechko (US 6,801,662 B1) in view of Breed (US 6,412,813 B1).

Re claims 9,10,18-20 Stanley and Owechko disclosed all of the claimed limitations except seatback angle sensor.

Breed disclosed method and system for detecting a child seat comprising seatback angle sensor.

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Stanley and Owechko by adding seatback angle sensor disclosed by Breed for detecting occupant is a child seat.

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6. Claim 17, is rejected under 35 U.S.C. 103(a) as being unpatentable over Stanley US (6,703,845 B2).

Re claim 17, Stanley disclosed all of the claimed limitations except determining that occupant is lying against a back of seat. However it would have been obvious to do so because Stanley disclosed determining the position of occupant.

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Stanley by adding determining that occupant is lying against a back of seat because Stanley disclosed determining the position of occupant.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Howing (US 5,525,843) discloses seat occupant detection system comprising capacitance sensor.

Lester (US 6,646,452 B2) disclose capacitance type occupant load (weight) sensor.

Basir et al. (US 6,678,600 B2) disclose vehicle occupant classification system comprising child seat detection system using an array of capacitance type proximity sensors.

Application/Control Number: 10/615,581

Art Unit: 2858

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is 571-272-2228. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lefkowitz Edwards can be reached at 571-272-2180.

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Art Unit: 2858

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